

ABSTRACT

- Wideband telephones, gateways, adapters, software, and methods are provided
- 5 for implementing wideband telephony over a network. A WB IP telephone has a WB telephone, a codec for encoding voice into voice data bits, and a packetizer for encoding groups of the voice data bits in intermediate packets. An adapter for an analog WB telephone has a digital to analog converter, a codec and a packetizer. The intermediate packets are generally not in form that would be ready for network
- 10 transmission. The WB IP telephone also includes a modem for connecting to the network over a telephone line. A voice gateway receives the encoded voice, and adds packet headers to it, to make it suitable for transmission through the network to a cooperating gateway. The cooperating gateway in turn strips the headers for the receiving WB IP telephone. The WB IP telephones can thus be connected to the
- 15 network using only PSTN lines.